What is Claimed is:

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- 1 1. A method for the qualitative and/or quantitative detection of a ribosome 2 inactivating protein, comprising:
- contacting a sample suspected of containing a ribosome inactivating protein
 with an oligonucleotide substrate having a GA_xGA tetraloop wherein "A_x" is a nucleoside
 comprising an adenine base, derivative or analog thereof; and
 - detecting the presence of the adenine base, derivative or analog thereof released from " $A_{\rm x}$ " of said tetraloop as an indication of the presence of the ribosome inactivating protein in the sample.
 - 2. The method of claim 1, further comprising treating the adenine base, derivative or analog thereof released from said tetraloop with a fluorescent reagent compound for forming a fluorescent adenine derivative or analog base capable of emitting fluorescence.
- 1 3. The method of Claim 2, wherein the fluorescent reagent compound is an 2 acetaldehyde.
 - 4. The method of Claim 3, wherein the acetaldehyde is a haloacetaldehyde.

- The method of Claim 4, wherein the haloacetaldehyde is selected from the group consisting of bromoacetaldehyde and chloroacetaldehyde.
- 1 6. The method of claim 1 wherein the adenine base, derivative or analog thereof 2 is capable of emitting fluorescence when released from said tetraloop.
- 7. The method of claim 6 wherein the fluorescent adenine base, derivative or analog base of "A_x" is 2-aminopurine.
 - 8. The method of claim 1 wherein the oligonucleotide substrate comprises 2'-O-methylated nucleosides.

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- 9. The method of claim 8 wherein the 2'-O-methylated oligonucleotide substrate is attached to a solid support.
- 1 10. The method of claim 8 wherein the GA_xGA tetraloop comprises 2 deoxyribonucleosides.
- 1 11. The method of claim 8 wherein the " A_x " of the GA_xGA tetraloop comprises a deoxyribonucleoside.

The method of claim 9 wherein the solid support is Sepharose. 12.

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- 1 13. The method of claim 2 further comprising detecting the presence of the fluorescent adenine derivative or analog base of " A_x " using fluorescence spectrometry. 2
- 1 The method of claim 2 further comprising detecting the presence of the 14. fluorescent adenine derivative or analog base of " $A_{\rm x}$ " using high pressure liquid 2 3 chromatography.
 - 15. The method of claim 6 further comprising detecting the presence of the fluorescent adenine derivative or analog base of "Ax" using fluorescence spectrometry.
 - A reagent for detecting the presence of ribosome inhibiting proteins, said 16. reagent comprising an oligonucleotide substrate including a GA_xGA tetraloop wherein "A_x" is a nucleoside comprising a fluorescent adequine derivative or analog base capable of emitting a fluorescence when released from said tetraloop.
 - 1 The reagent of claim 16 wherein the nucleoside, "Ax", comprises a 2'-17. 2 deoxyribose sugar.

- 1 18. The reagent of claim 16 wherein the nucleoside, "A_x", comprises a D-ribose 2 sugar.
- 1 19. The reagent of claim 16 wherein the fluorescent adenine derivative or analog 2 base of the nucleoside "A_x" is 2-aminopurine.
- 1 20. The reagent of claim 16 wherein the oligonucleotide substrate comprises 2'-2 O-methylated nucleosides.
- 21. The reagent of claim 20 wherein the oligonucleotide substrate is a dAU6 2 20mer attached to a solid support.
 - 22. The reagent of claim 20 wherein the oligonucleotide substrate is a dA 14mer.
 - 23. The reagent of claim 20 wherein the GA_xGA tetraloop comprises deoxyribonucleosides.

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1 24. The reagent of claim 20 wherein the "A_x" comprises a deoxyribonucleotide.

1	25	. An assay kit for the qualitative and/or quantitative detection of a ribosome
2	inactivatir	ng protein, said assay kit comprising:
3		an effective amount of an oligonucleotide substrate having a GA _x GA tetraloop
4	wherein "A	A_x " is a nucleoside comprising an adenine base, derivative or analog thereof; and
5		a vessel for retaining a sample suspected of containing a ribosome
6	inactivatin	g protein in contact with the substrate.
1	26.	The assay kit of claim 25 further comprising an effective amount of a
2	fluorescen	t reagent compound capable of reacting with the adenine base, derivative or
3 4 4 1 2 2	analog the	reof released from "A _x " to form a fluorescent adenine derivative or analog base.
	27.	The assay kit of claim 25 wherein the adenine base, derivative or analog
	thereof is c	apable of emitting fluorescence when released from the nucleoside, "A _x ".
1	28.	The assay kit of claim 27 wherein the fluorescent adenine base, derivative or
2	analog there	eof is 2-aminopurine.
1	29.	The assay kit of claim 26 further comprising a fluorescence measuring
2	apparatus.	
1	30.	The assay kit of claim 27 further comprising a fluorescence measuring

apparatus.